## SEQUENCE LISTING

<110> Chen et al.

 $<\!120\!>\,$  METHODS AND COMPOSITIONS FOR STIMULATING AXON REGENERATION AND PREVENTING NEURONAL CELL DEGENERATION

<pre>&lt;130&gt; ERM-105.01 &lt;160&gt; 4 &lt;170&gt; PatentIn version 3.0 &lt;210&gt; 1 &lt;211&gt; 1050 &lt;212&gt; DNA &lt;213&gt; homo sapiens &lt;220&gt; &lt;221&gt; CDS &lt;222&gt; (32)(751)</pre>												
<pre>&lt;400&gt; 1 gttggccccc gttacttttc ctctgggaaa t atg gcg cac gct ggg aga aca</pre>												
ggg tac gat aac cgg gag ata gtg atg aag tac atc cat tat aag ctg Gly Tyr Asp Asn Arg Glu Ile Val Met Lys Tyr Ile His Tyr Lys Leu 10 15 20	100											
tcg cag agg ggc tac gag tgg gat gcg gga gat gtg ggc gcc gcg ccc Ser Gln Arg Gly Tyr Glu Trp Asp Ala Gly Asp Val Gly Ala Ala Pro 25 30 35	148											
ccg ggg gcc gcc ccc gcg ccg ggc atc ttc tcc tcg cag ccc ggg cac Pro Gly Ala Ala Pro Ala Pro Gly Ile Phe Ser Ser Gln Pro Gly His 45 50 55	196											
acg ccc cat aca gcc gca tcc cgg gac ccg gtc gcc agg acc tcg ccg Thr Pro His Thr Ala Ala Ser Arg Asp Pro Val Ala Arg Thr Ser Pro 60 65 70	244											
ctg cag acc ccg gct gcc ccc ggc gcc gcc gcg ggg cct gcg ctc agc Leu Gln Thr Pro Ala Ala Pro Gly Ala Ala Ala Gly Pro Ala Leu Ser 75 80 85	292											
ccg gtg cca cct gtg gtc cac ctg acc ctc cgc cag gcc ggc gac gac Pro Val Pro Pro Val Val His Leu Thr Leu Arg Gln Ala Gly Asp Asp 90 95 100	340											
ttc tcc cgc cgc tac cgc cgc gac ttc gcc gag atg tcc agg cag ctg Phe Ser Arg Arg Tyr Arg Arg Asp Phe Ala Glu Met Ser Arg Gln Leu 105 110 115	388											
cac ctg acg ccc ttc acc gcg cgg gga cgc ttt gcc acg gtg gtg gag His Leu Thr Pro Phe Thr Ala Arg Gly Arg Phe Ala Thr Val Val Glu 120 125 130 135	436											
gag ctc ttc agg gac ggg gtg aac tgg ggg agg att gtg gcc ttc ttt Glu Leu Phe Arg Asp Gly Val Asn Trp Gly Arg Ile Val Ala Phe Phe	484											

	140	145	150								
	Val Met Cys Val Gl	g agc gtc aac cgg gag u Ser Val Asn Arg Glu 0 165									
		g atg act gag tac ctg p Met Thr Glu Tyr Leu 180									
		c gga ggc tgg gat gcc n Gly Gly Trp Asp Ala 195									
		t ctg ttt gat ttc tcc to Leu Phe Asp Phe Ser 210	-								
		c ctg gtg gga gct tgc a Leu Val Gly Ala Cys 225									
	Leu Gly His Lys	a agtcaacatg cctgcccc	aa 771								
acaaatatgc aaaaggttca ctaaagcagt agaaataata tgcattgtca gtgatgttcc 8											
atgaaacaaa gctg	caggct gtttaagaaa a	aataacaca catataaaca	tcacacacac 891								
agacagacac acac	acacac aacaattaac a	gtcttcagg caaaacgtcg	aatcagctat 951								
ttactgccaa aggg	gaaatat catttatttt 1	tacattatt aagaaaaaaa	gatttattta 1011								
tttaagacag tccc	atcaaa actcctgtct 1	tggaaatc	1050								
<210> 2 <211> 239 <212> PRT <213> homo sag <400> 2	piens										
Met Ala His Ala	a Gly Arg Thr Gly T	vr Asp Asn Arg Glu Ile	Val Met								
1	5	10	15								
Lys Tyr Ile His	Tyr Lys Leu Ser G	In Arg Gly Tyr Glu Trp 30	Asp Ala								
Gly Asp Val Gly 35	y Ala Ala Pro Pro G 40	ly Ala Ala Pro Ala Pro 45	Gly Ile								

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Phe Ser Ser Gln Pro Gly His Thr Pro His Thr Ala Ala Ser Arg Asp

Pro Val Ala Arg Thr Ser Pro Leu Gln Thr Pro Ala Ala Pro Gly Ala

Ala	Ala	Gly	Pro	Ala 85	Leu	Ser	Pro	Val	Pro 90	Pro	Val	Val	His	Leu 95	Thr	
Leu	Arg	Gln	Ala 100	Gly	Asp	Asp	Phe	Ser 105	Arg	Arg	Tyr	Arg	Arg 110	Asp	Phe	
Ala	Glu	Met 115	Ser	Arg	Gln	Leu	His 120	Leu	Thr	Pro	Phe	Thr 125	Ala	Arg	Gly	
Arg	Phe 130	Ala	Thr	Val	Val	Glu 135	Glu	Leu	Phe	Arg	Asp 140	Gly	Val	Asn	Trp	
Gly 145	Arg	Ile	Val	Ala	Phe 150	Phe	Glu	Phe	Gly	Gly 155	Val	Met	Cys	Val	Glu 160	
Ser	Val	Asn	Arg	Glu 165	Met	Ser	Pro	Leu	Val 170	Asp	Asn	Ile	Ala	Leu 175	Trp	
Met	Thr	Glu	Tyr 180	Leu	Asn	Arg	His	Leu 185	His	Thr	Trp	Ile	Gln 190	Asp	Asn	
Gly	Gly	Trp 195	Asp	Ala	Phe	Val	Glu 200	Leu	Tyr	Gly	Pro	Ser 205	Met	Arg	Pro	
Leu	Phe 210	Asp	Phe	Ser	Trp	Leu 215	Ser	Leu	Lys	Thr	Leu 220	Leu	Ser	Leu	Ala	
Leu 225	Val	Gly	Ala	Cys	Ile 230	Thr	Leu	Gly	Ala	Tyr 235	Leu	Gly	His	Lys		
<210> 3 <211> 926 <212> DNA <213> homo sapiens <220> <221> CDS <222> (135)(836)																
<pre>&lt;400&gt; 3 gaatctcttt ctctcccttc agaatcttat cttggctttg gatcttagaa gagaatcact 60</pre>																
															agccca	120
tcc	ctat	tat	aaaa	atg Met 1											ttt Phe	170
			_	ctt Leu		_				_		_	_		agt Ser	218
															gag Glu	266

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													cac His		314
													agt Ser		362
													ctg Leu 90		410
													agt Ser		458
		_								_			agc Ser		506
													ggt Gly		554
													agc Ser		602
													atg Met 170		650
														tgg Trp	698
														cga Arg	746
														gtg Val 220	794
					Leu	ggc Gly							tga		836
ccagacactg accatccact ctaccctccc acccccttct ctgctccacc acatcctccg												896			
tcc	tccagccgcc attgccacca ggagaacccg												926		

<210> 4 <211> 233 <212> PRT

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<213> homo sapiens

<400> 4

300 - 00

Met Ser Gln Ser Asn Arg Glu Leu Val Val Asp Phe Leu Ser Tyr Lys

5 10 15

Leu Ser Gln Lys Gly Tyr Ser Trp Ser Gln Phe Ser Asp Val Glu Glu 20 25 30

Asn Arg Thr Glu Ala Pro Glu Gly Thr Glu Ser Glu Met Glu Thr Pro 35 40 45

Ser Ala Ile Asn Gly Asn Pro Ser Trp His Leu Ala Asp Ser Pro Ala 50 55 60

Val Asn Gly Ala Thr Ala His Ser Ser Ser Leu Asp Ala Arg Glu Val 65 70 75 80

Ile Pro Met Ala Ala Val Lys Gln Ala Leu Arg Glu Ala Gly Asp Glu 85 90 95

Phe Glu Leu Arg Tyr Arg Arg Ala Phe Ser Asp Leu Thr Ser Gln Leu 100 105 110

His Ile Thr Pro Gly Thr Ala Tyr Gln Ser Phe Glu Gln Val Val Asn 115 120 125

Glu Leu Phe Arg Asp Gly Val Asn Trp Gly Arg Ile Val Ala Phe Phe 130 135 140

Ser Phe Gly Gly Ala Leu Cys Val Glu Ser Val Asp Lys Glu Met Gln 145 150 155 160

Val Leu Val Ser Arg Ile Ala Ala Trp Met Ala Thr Tyr Leu Asn Asp 165 170 175

His Leu Glu Pro Trp Ile Gln Glu Asn Gly Gly Trp Asp Thr Phe Val 180 185 190

Glu Leu Tyr Gly Asn Asn Ala Ala Ala Glu Ser Arg Lys Gly Gln Glu 195 200 205

Arg Phe Asn Arg Trp Phe Leu Thr Gly Met Thr Val Ala Gly Val Val 210 215 220

Leu Leu Gly Ser Leu Phe Ser Arg Lys 225 230

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